

# DUPLICATE

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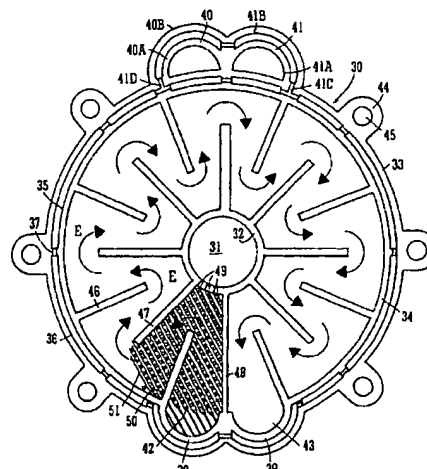
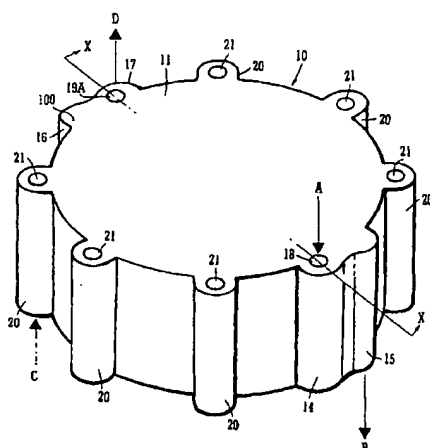
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(54) Title: HEAT EXCHANGER AND/OR CHEMICAL REACTOR



(57) Abstract: Heat exchange and/or chemical reactor apparatus (10; 100) comprises a series of plates which are stacked and bonded together in a fluid-tight manner, the series of plates comprising alternate first (30; 130) and second (90; 190) plates or groups of plates along the stack providing flow paths for respective first and second fluids, each plate forming said first (30; 130) and second (90; 190) plates or groups of plates having an inlet (42, 90) and an outlet (43, 91) between which respective first or second fluid is flowable and a continuous wall (34, 84) to contain the flow of fluid, and characterised in that each plate (30, 90; 130; 190) comprises an outer wall (43, 83) continuous wall (34, 84) to define a space (35, 85) therebetween, the spaces (35, 85) of each plate (30, 90; 130; 190) of the stack being in fluid communication to form a compartment running along the stack.

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